

2011-09-28 Wednesday Morning Notes

Wednesday, September 28, 2011
7:51 AM

Operational Notes

- Pulsed Magnet filter outlet pressure hitting high side of alarm tolerance.

Friday Plan

0830 Last transfers of antiprotons from Accumulator to Recycler

~0900 Rings enclosure is made ready for access

ES&H starts sweep for making Rings Enclosure Supervised

followed by fine radiation check of tour area

followed by re-posting of service buildings

Operations performs configuration control for Rings

Pbar performs LOTO for Rings

Pbar ropes off tour area in tunnel

1300-1340 Press tour

Press, Public Relations plus are to arrive by own cars

Quick intro and highlights of the Antiproton Source talk in building or parking lot

Tunnel tour

After 1400 ES&H re-re-posts building

By mid evening shift, Operations removes configuration locks and does Search&Secure

By mid evening shift, Pbar undoes LOTO, turns on rings and establishes stacking

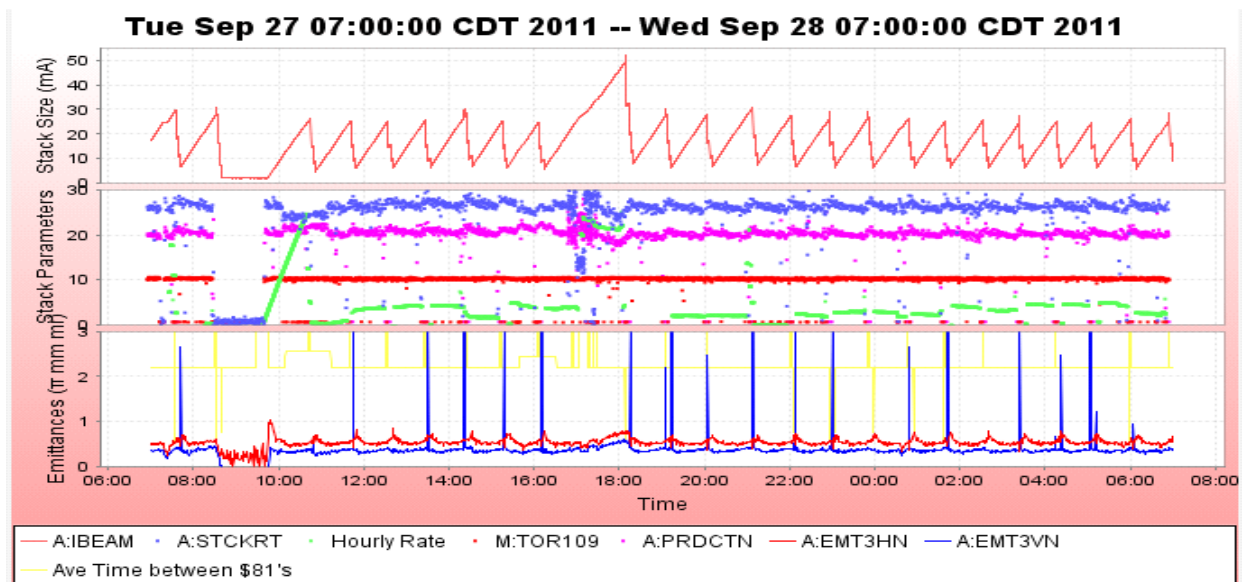
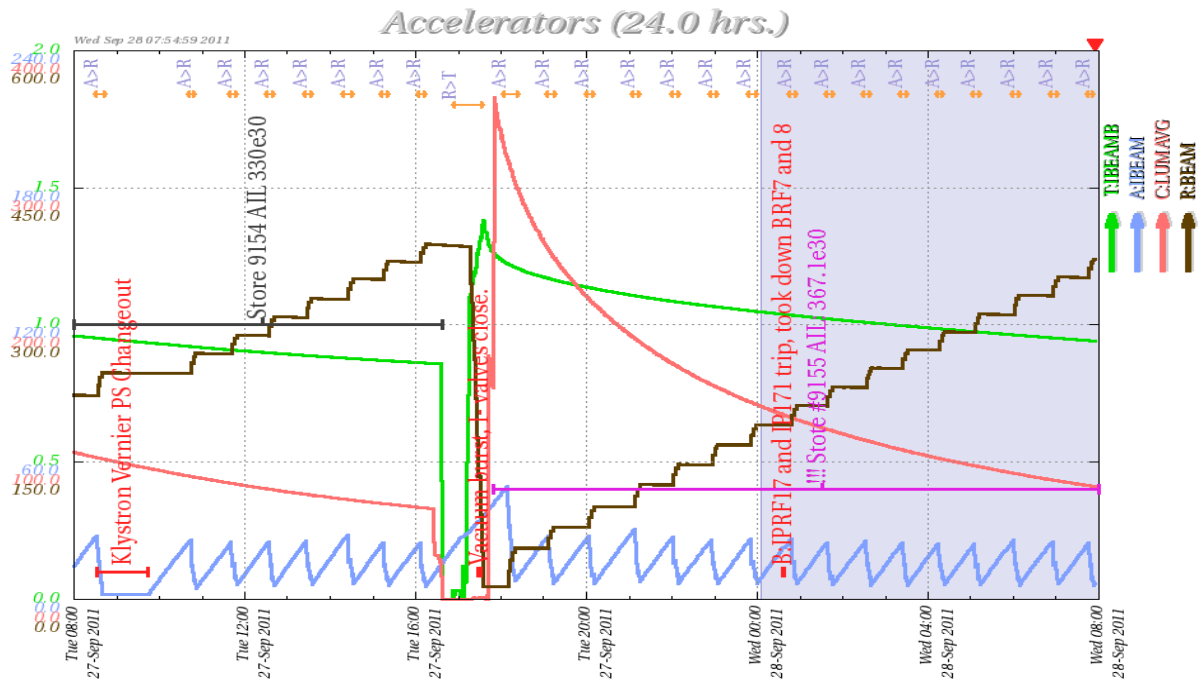
Sometime on Saturday, stack reaches 150mA, then put Antiproton Source in Standby.

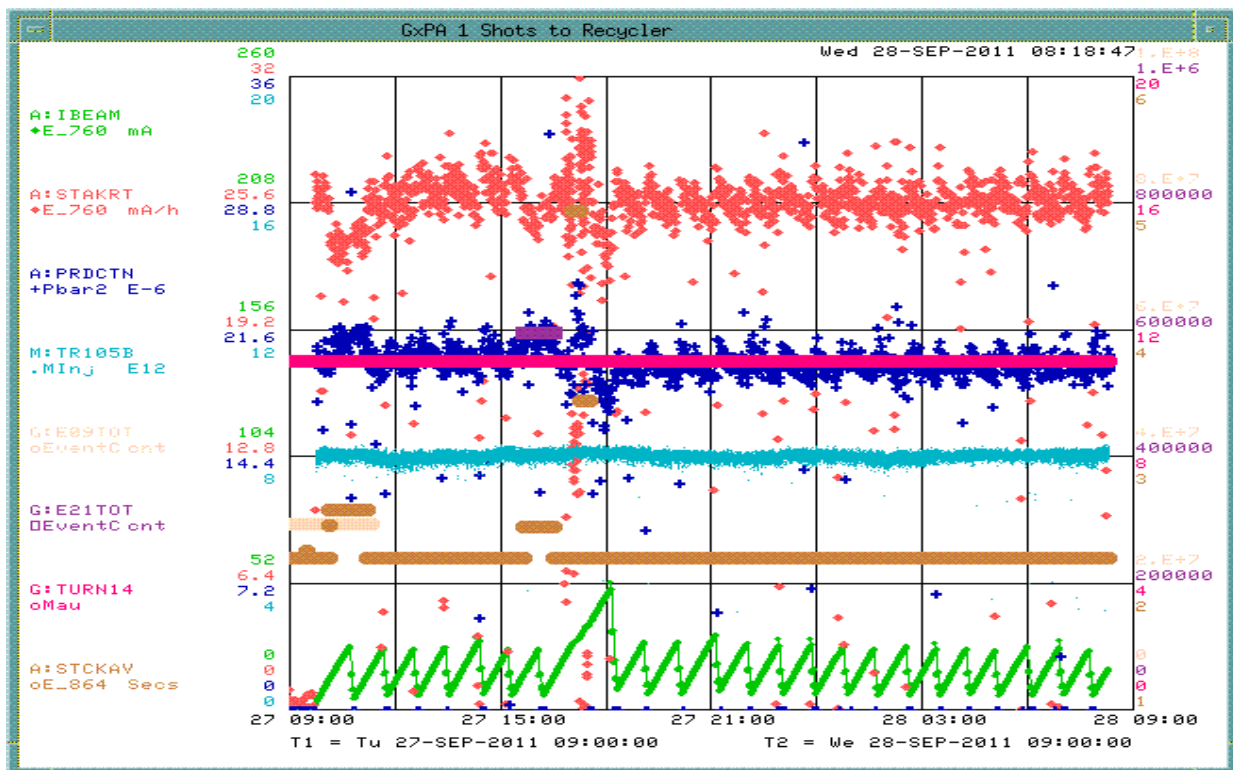
Numbers

- Stacking
 - Pbars stacked: 568.07 E10
 - Time stacking: 22.73 Hr
 - Average stacking rate: 25.00 E10/Hr
- Uptime
 - Number of pulses while in stacking mode: 36278
 - Number of pulses with beam: 35629
 - Fraction of up pulses was: 98.21%
- The uptime's effect on the stacking numbers
 - Corrected time stacking: 22.32 Hr
 - Possible average stacking rate: 25.45 E10/Hr
 - Could have stacked: 578.42 E10/Hr
- Recycler Transfers
 - Pbars sent to the Recycler: 567.26 E10
 - Number of transfers : 73
 - Number of transfer sets: 24
 - Average Number of transfer per set: 3.04
 - Time taken to shoot including reverse proton tuneup: 00.26 Hr
 - Transfer efficiency: 95.74%

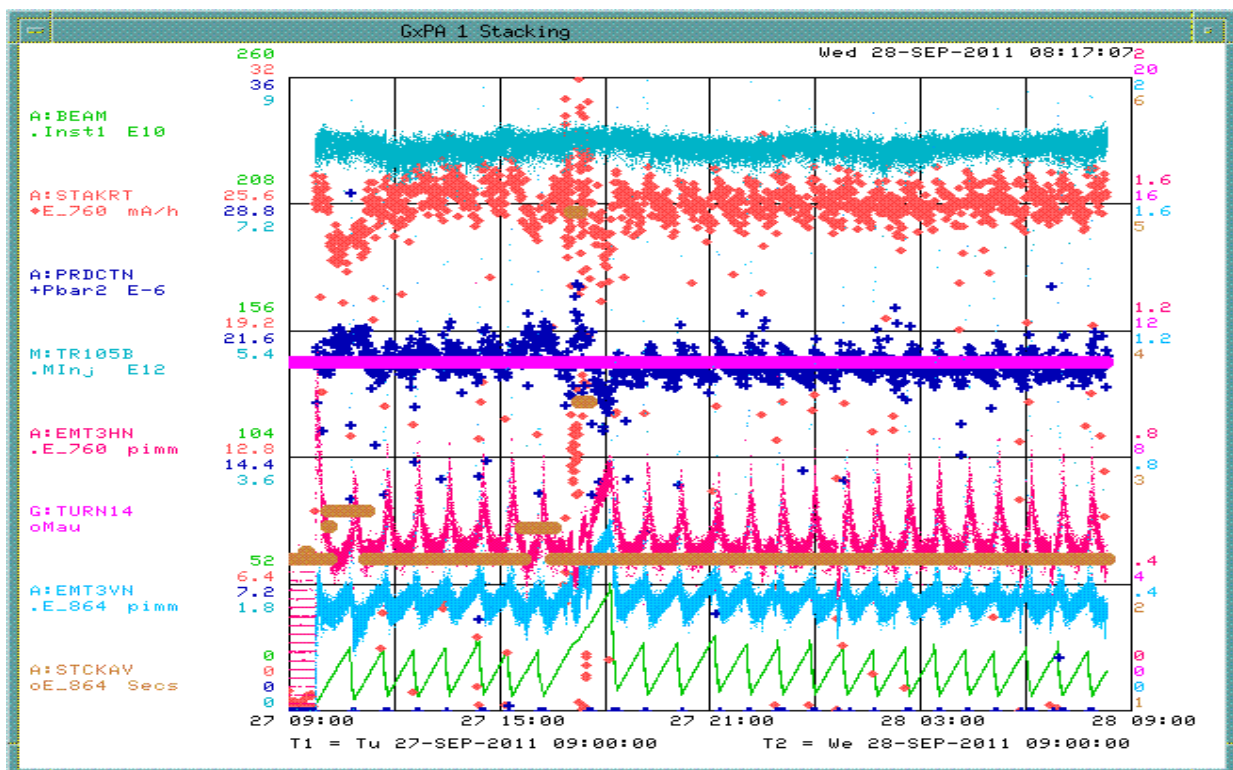
- Other Info
 - Average POT : 8.01 E12
 - Average production: 19.90 pbars/E6 protons

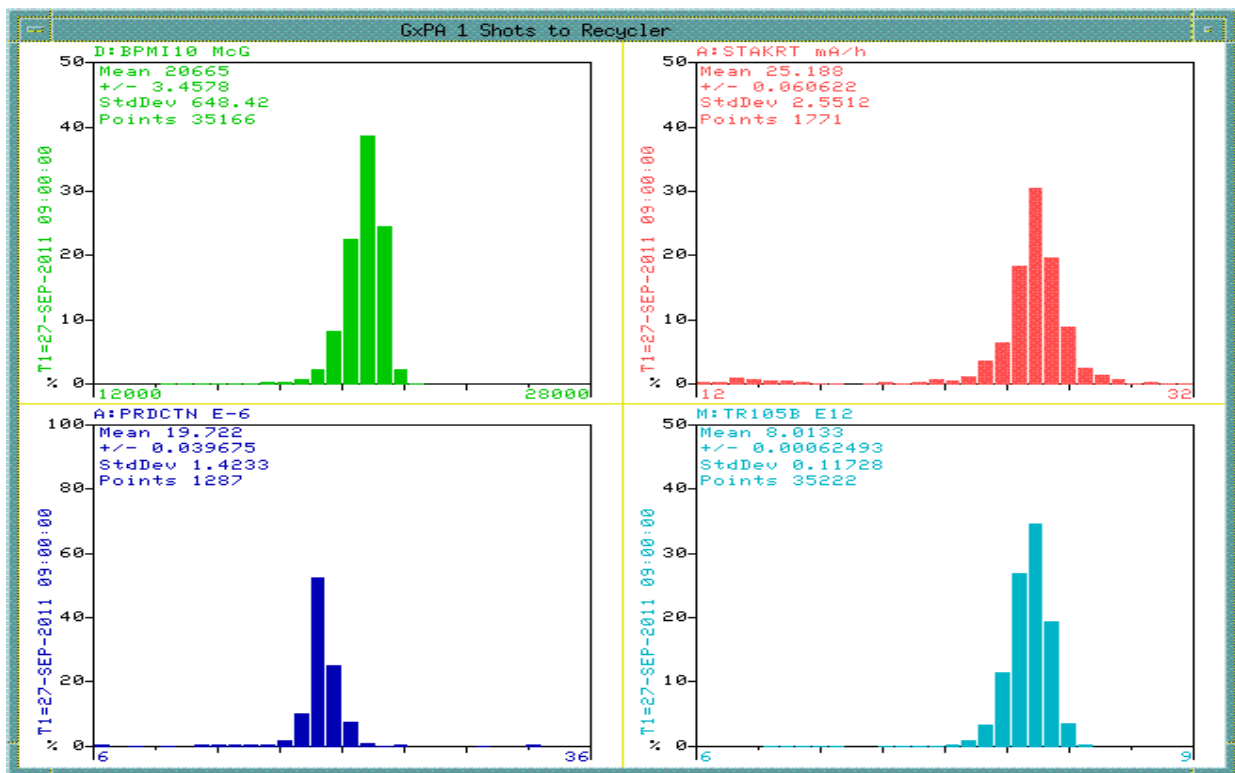
Plots



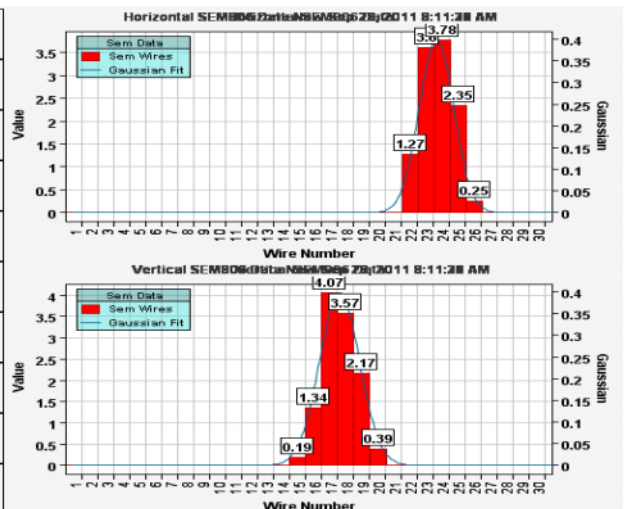


NTF in the morning. Some SY120 in the afternoon.





Horizontal Area New	11.24	Intensity
Horizontal Area Calc	199.33	Intensity
Horizontal Sigma New	2.97	mm
Horizontal Sigma Calc	2.81	mm
Horizontal Mean	26.12	mm
Vertical Area New	11.73	Intensity
Vertical Area Calc	202.84	Intensity
Vertical Sigma New	3.19	mm
Vertical Sigma Calc	3.0	mm
Vertical Mean	7.88	mm



Pbar Source Accumulator, Debuncher, AP1, AP2, & AP3 Beamline Views

A:IBMINJ 11.491 e07
A:FRWDTH 19.516 Hz
A:EMT3HN 0.455 pimm
A:LFTOVR 1.222 %
A:CENFRQ 628896. Hz
A:EMT3VN 0.315 pimm
A:STMEDS 10.581 MeV
A:R2DDS1 628897. Hz
A:XFRNXT 75.0 mA
A:R1HLFB 30.953 kV

Program Running: Yes

V:APSMOD: Stacking

MI EFF 0.86
M:TR105B 8.059 E12
G:TURN14 11.0 Turns
I:14SUM3 9.318 E12



D:724TOR 8.276 E09
G:RD2116 2.1 mRem

D:INJFLX 26.198 McG
D:FLXBTL 1.544 uSec
D:R1HLFB 5.075 MV
D:BPM110 19761.8 McG
Z:PRDCTD 27.856 E-6

AP30 SERVICE BUILDING

AP31 SERVICE BUILDING

D:GTGCHK 141.191 %

D:GTGPWR 70.424 KW

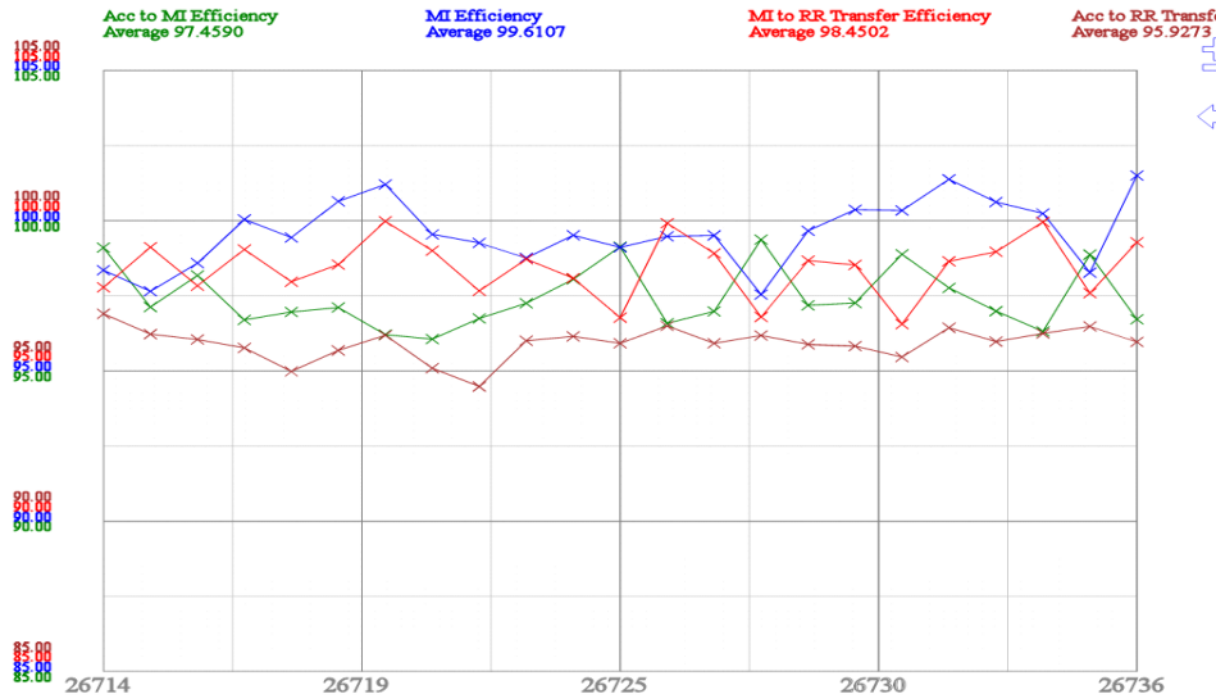
Pbar Beamlines BPM House Status

P1
P2
AP1
AP2 F27
AP2 AP50

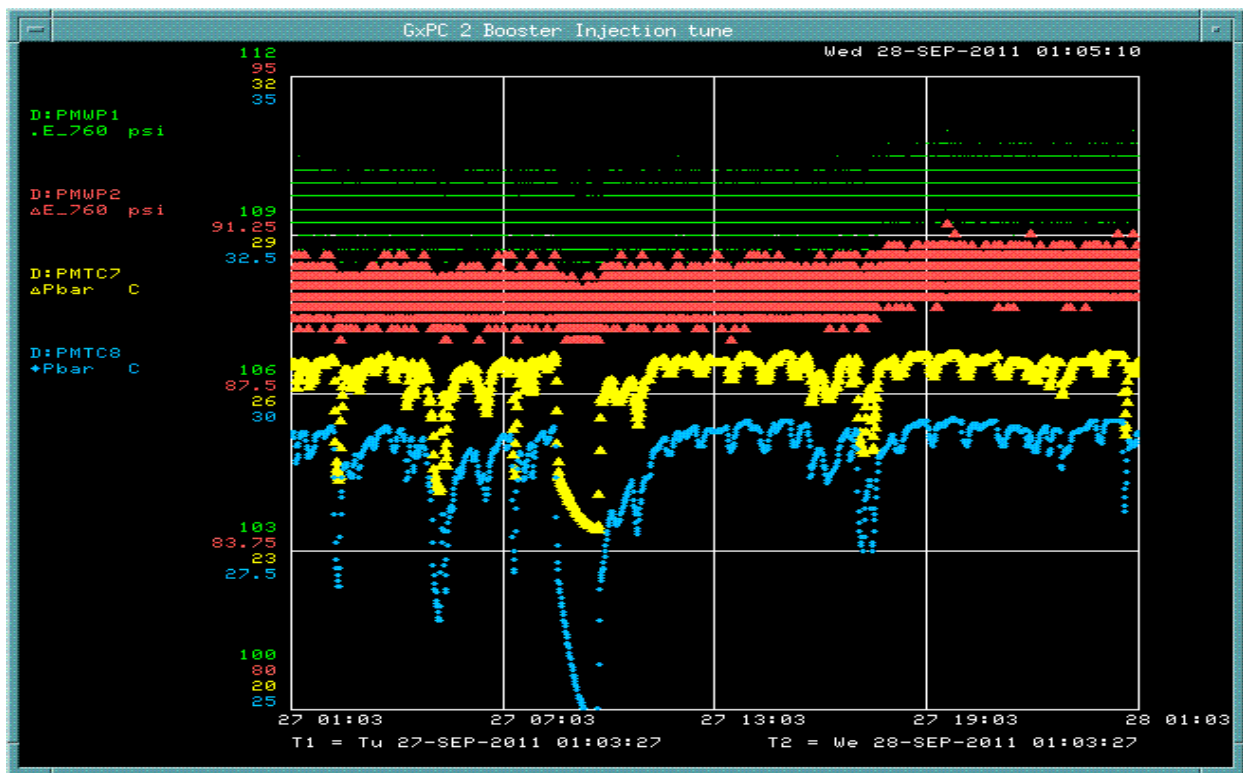
0x80 Event Detected

A:STCKAV 2.2 Secs

Overthruster Status



Column 1 Number _0_PBar Transfer Shot #	Column 4 Number_3_Transfer Time	Column 21 Number _20_A-I BEAMB sampled on \$91 (A-BEA M7), E10	Column 22 Number _21_A-I BEAMB sampled on \$94 (A-BEA M9), E10	Unstacked (mA)	Column 23 Number _22_R-B EAMS (R-BEA ME0[0]) pre after E10	Column 24 Number _23_R-B EAM (R-BEA ME0[1]) post after, E10	Stashed	Acc to RR Eff	Acc to MI Eff	Acc to MI2 Eff	Acc to MI * Acc to MI2 Efficiency	Trans fers	Sets	Column 5 Number _4_Acc Horizontal Emittance	Column 6 Number _5_Acc Vertical Emittance	Column 8 Number _7_Acc Longitudi nal Emittance	
	Totals =>			568.99			545.29	95.83%	97.54%	97.18%	94.79%	73	24	5.2621	3.4163	1.9992	
	Daily Average =>			568.99			545.29					73	24				
26737	Wednesday, September 28, 2011	7:45	24.83	6.02	21.44	351.88	372.04	20.51	95.64%	97.15%	96.91%	94.15%	3	1	5.244	3.323	2.012
26736	Wednesday, September 28, 2011	6:55	25.85	6.31	22.12	331.86	352.79	21.30	96.29%	97.41%	98.02%	95.48%	3	1	5.37	3.609	2.004
26735	Wednesday, September 28, 2011	6:00	26.25	5.99	22.60	311.31	332.81	21.79	96.42%	98.66%	97.33%	96.03%	3	1	5.163	3.252	1.997
26734	Wednesday, September 28, 2011	5:05	24.76	6.12	21.21	291.97	312.09	20.40	96.17%	96.41%	96.96%	93.48%	3	1	5.538	3.518	2.011
26733	Wednesday, September 28, 2011	4:15	25.07	6.29	21.39	272.45	292.66	20.51	95.88%	97.02%	97.72%	94.80%	3	1	5.217	3.409	2.01
26732	Wednesday, September 28, 2011	3:24	24.97	6.14	21.44	252.55	272.97	20.72	96.68%	98.23%	99.45%	97.69%	3	1	5.341	3.525	2.028
26731	Wednesday, September 28, 2011	2:33	26.11	6.27	22.42	231.81	253.07	21.44	95.66%	98.55%	98.93%	97.49%	3	1	5.317	3.582	2.007
26730	Wednesday, September 28, 2011	1:38	25.32	6.17	21.70	211.68	232.36	20.82	95.95%	97.51%	97.25%	94.83%	3	1	5.399	3.444	1.993
26729	Wednesday, September 28, 2011	0:48	26.69	6.59	22.70	190.43	212.00	21.76	95.87%	97.52%	97.40%	94.99%	3	1	5.291	3.445	1.983
26728	Tuesday, September 27, 2011	23:51	26.91	6.37	23.10	168.72	190.74	22.21	96.16%	99.03%	96.71%	95.77%	3	1	5.276	3.538	1.985
26727	Tuesday, September 27, 2011	22:56	26.67	6.54	22.75	147.34	169.02	21.87	96.12%	97.45%	96.91%	94.43%	3	1	5.406	3.506	2.021
26726	Tuesday, September 27, 2011	22:01	27.51	6.59	23.48	125.18	147.60	22.65	96.46%	96.80%	96.41%	93.33%	3	1	5.249	3.399	2.016
26725	Tuesday, September 27, 2011	21:08	30.90	7.70	25.78	101.00	125.49	24.68	95.72%	98.57%	98.42%	97.01%	3	1	5.412	3.701	2.001
26724	Tuesday, September 27, 2011	20:04	28.12	6.84	23.88	78.49	101.23	22.95	96.09%	98.47%	97.06%	95.58%	3	1	5.424	3.727	2.016
26723	Tuesday, September 27, 2011	19:06	27.94	6.58	23.92	55.96	78.71	22.94	95.87%	97.35%	96.66%	94.11%	3	1	5.388	3.549	2.004
26722	Tuesday, September 27, 2011	18:09	49.86	8.09	45.44	13.77	56.10	42.78	94.15%	96.80%	96.20%	93.12%	4	1	6.117	4.487	1.97
26721	Tuesday, September 27, 2011	16:06	24.99	5.86	21.73	368.62	388.80	20.66	95.08%	96.33%	95.86%	92.34%	3	1	5.08	3.251	1.997
26720	Tuesday, September 27, 2011	15:14	25.17	6.09	21.74	349.84	370.21	20.91	96.19%	96.22%	97.56%	93.87%	3	1	5.45	3.509	2.009
26719	Tuesday, September 27, 2011	14:25	28.53	6.66	24.53	328.05	351.00	23.44	95.58%	97.24%	97.73%	95.03%	3	1	5.393	3.519	2.004
26718	Tuesday, September 27, 2011	13:26	25.86	6.23	22.26	308.29	329.18	21.19	95.20%	97.00%	96.88%	93.97%	3	1	5.461	3.438	2.017
26717	Tuesday, September 27, 2011	12:34	25.52	6.04	22.09	288.45	309.18	21.11	95.55%	96.88%	96.88%	93.86%	3	1	5.238	3.429	2.009
26716	Tuesday, September 27, 2011	11:41	25.51	6.08	21.98	268.57	289.26	21.09	95.95%	97.85%	97.08%	95.00%	3	1	5.211	3.354	2.013
26715	Tuesday, September 27, 2011	10:45	26.42	4.76	23.38	246.99	269.23	22.45	96.01%	97.59%	95.16%	92.87%	3	1	5.017	2.965	1.98
26714	Tuesday, September 27, 2011	8:33	28.01	2.12	25.92	223.02	247.96	25.12	96.89%	98.99%	97.80%	96.81%	3	1	3.289	1.513	1.893



Pulsed magnet filter pressure high